## Documentation for Q1 part A and B

## Q1 part A)

Have created 3 functions countA(), countB(), countC() that count from 0 to (1-2^32) and they are being called by 3 new threads that being created in the main function.

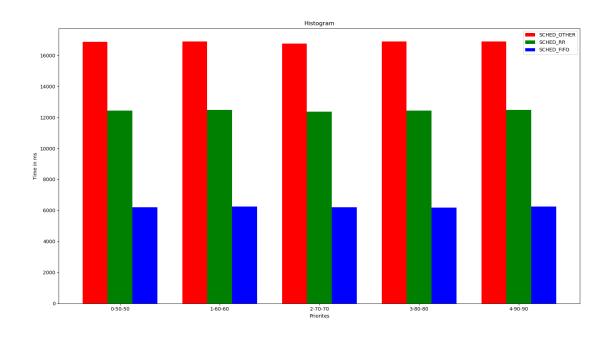
Each thread has its own scheduling priority, SCHED\_OTHER, SCHED\_RR, SCHED\_FIFO.

Have used clock\_gettime() function to return the running times of each of the threads.

All threads run parallelly and have the core affinity set to 0.

The findings all have the similar result of SCHED\_OTHER being the slowest while SCHED\_FIFO.

I have plotted the graph for the same using the histogram.py that plots the values that are received from the function



## Q1 part B)

Created 3 processes with the help of pid\_t and calculated its time.

Applied the idea of forking using fork() and executed the processes using execvp()

```
arch/x86/boot/bzImage
   BUILD
 Kernel: arch/x86/boot/bzImage is ready (#1)
 real
         13m37.340s
 user
         22m30.533s
         7m16.551s
Kernel: arch/x86/boot/bzImage is ready (#1)
        9m44.129s
real
        21m37.940s
user
        8m53.973s
sys
          arch/x86/boot/compressed
Kernel: arch/x86/boot/bzImage is ready
real
        9m34.070s
        22m9.555s
user
        10m46.804s
sys
[Dhvanil submission3]# [
```